

# EPA REACH IT



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**EPA REmediation And CHaracterization  
Innovative Technologies (EPA REACH IT)**

2004 Update

[www.epareachit.org](http://www.epareachit.org)

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# EPA REACH IT



2004 Update

REmediation And CHaracterization Innovative Technologies




## Innovative Technology Information at Your Fingertips

### What is EPA REACH IT?

Do you need reliable information about remediation and characterization technologies? Would you like to know about sites at which these technologies are being implemented? Or, are you looking for a cost-effective way to market your innovative treatment or characterization technologies to key decision makers? The new EPA REACH IT can help with streamlined access to technology information.



REmediation And CHaracterization Innovation Technologies (EPA REACH IT), sponsored by the U.S. Environmental Protection Agency (EPA)'s Technology Innovation Program, is a system that lets environmental professionals use the power of the Internet to search, view, download and print information about innovative remediation and characterization technologies and their applications. EPA REACH IT is a free service to both technology providers and technology users.

It combines information submitted by vendors of remediation and characterization technologies with information from EPA, the U.S. Department of Defense (DoD), the U.S. Department of Energy (DOE), and state project managers about sites at which innovative technologies are being deployed. The combination of these sources provides you with up-to-date information about:

-  technologies you can use to characterize or remediate a site,
-  sites at which technologies are being used, and
-  service providers that offer them.

EPA REACH IT includes a fully searchable database that allows users to identify sites with characterization and remediation challenges that closely match their own.

### What's New in EPA REACH IT?

-  Streamlined access to technology and vendor information, including:
  - Streamlined search functions, with one-page search criteria selection and fewer pop-up windows
  - One-click access to searches on topics of interest to the remediation community, the most commonly searched technologies and contaminants, and customized user-created queries
  - Faster searches for specific vendors, technology trade names, and sites with alphabetical indexes
  - One-click downloading of search results in a spreadsheet
  - A new Snapshots section that graphically summarizes EPA REACH IT data
-  In 2004, 30 new technologies were added and 30 technologies were updated. Many of the new technologies address difficult remediation problems, including mercury, 1,4-dioxane, and perchlorate. Page 3 lists these new and updated technologies. They are summarized below.

#### Treatment Technologies

- Mercury treatment (13 new and 0 updated)
- Perchlorate treatment (0 new and 2 updated)
- 1,4-Dioxane treatment (3 new and 0 updated)
- Chemical Treatment --Oxidation/Reduction (2 new and 3 updated)
- Phytoremediation (0 new and 1 updated)
- Bioremediation (4 new and 6 updated)
- Others (1 new and 8 updated)

#### Characterization and Sampling

- DNAPL characterization technologies (1 new and 2 updated)
- Sampling technologies (2 new and 1 updated)
- Others (5 new and 5 updated)

## What Technology and Site Information Can I Find in EPA REACH IT?

### Information Available in EPA REACH IT As of November 2004

#### Remediation Technologies

- 308 technology vendors
- 476 technologies
- 2,486 sites at which remediation technologies are being applied

#### Characterization Technologies

- 166 technology vendors
- 251 technologies
- 200 sites at which characterization technologies are being applied

Below are some types of information available on the EPA REACH IT website.

#### Vendor information:

- *Contact information* – Name, address, phone number, e-mail address, and website URL
- *Technologies offered* – List of technologies offered by vendor

#### Technology information

- *Technology overview* – General information about technology and status under federal or state verification programs
- *Description of technology* – Brief discussion of technology operation, specific circumstances under which it is particularly effective or limited, and technology costs
- *Treatment capabilities* – Media, contaminants, and contaminant groups technology is addressing, or has potential to address
- *Representative sites* – data on specific sites where the technology was applied from EPA, DoD, DOE, state project managers and vendors

#### Site information

- *Site overview* – General information about site, equipment scale, and operational status
- *Site type/waste source* – Type of operations causing contamination at site, and source of waste
- *Media* – Type of media addressed, for example, soil and groundwater
- *Regulation/statute/organization* – Governing regulation or organization, for example, Superfund remedial action
- *Performance data* – Contaminants, concentration ranges, detection limits, and cleanup goals
- *Cost data* – Estimated cost per unit of waste treated and total cost
- *References* – Other literature containing information about technology or site, and contact information for site managers and technology vendors

## I Am a Technology Vendor. How Can I Add Information About My Technology to EPA REACH IT?

You can list your technology information on EPA REACH IT free of charge by filling out a Vendor Information Form (VIF). EPA REACH IT contains many types of remediation and characterization technologies. Eligible technologies are described on the EPA REACH IT website at [www.epareachit.org](http://www.epareachit.org) on the "About EPA REACH IT" page.

The VIF is available:

- By accessing the EPA REACH IT home page at <http://www.epareachit.org>
- By completing the one-page form on the insert to this Fact Sheet, and mailing it to the address printed on the back.
- By e-mail, with a request to [EPAREACHIT@ttemi.com](mailto:EPAREACHIT@ttemi.com)
- In hard copy, with a request to the EPA REACH IT help line at (800) 245-4505

You also can update existing information by accessing your VIF with your password. If you have forgotten your password, call or send an e-mail to the address listed above.

## What Are Hot Topics in the Cleanup Community?

We are particularly interested in expanding EPA REACH IT to include more technologies that address the following:

- Dense nonaqueous phase liquids (DNAPL)
- Sediment
- In situ thermal treatment
- In situ chemical oxidation
- In situ flushing
- Mercury
- 1,4-Dioxane
- Perchlorate

## What are the Benefits of Being on EPA REACH IT?

- The EPA REACH IT website is widely used by federal agencies, states, consulting engineering firms, responsible parties, technology developers, and the investment community.
- EPA REACH IT is widely advertised at conferences and through direct mailings to an extensive list of potential users.
- EPA REACH IT is free to both providers and users of innovative technologies. You can become part of EPA REACH IT by investing only the time it takes to complete the Vendor Information Form (VIF) for your technology.
- The new system has updated site features and functions, and more technologies, vendors, and sites.

## New and Updated Technologies on EPA REACH IT Website in 2004\*

### Mercury Treatment Technologies

ADA Technologies, Inc. –  
Chemical Immobilization  
Bethlehem Apparatus Company,  
Inc. – Mercury Retort  
Biopraxis, Inc. – Passive Treatment  
Wall (Permeable Reactive Barrier)  
Brookhaven National Laboratories –  
Solidification/Stabilization  
Frontier Geosciences, Inc. –  
Pump and Treat  
Harbauer GmbH & Co. KG –  
Mercury Retort  
Noram Engineering and  
Constructors, Ltd. – Chemical  
Immobilization  
Noram Engineering and  
Constructors, Ltd. – Pump and  
Treat  
Nuclear Fuel Services, Inc. –  
Chemical Immobilization  
Pintail Systems, Inc. – Pump and  
Treat  
Science Application International  
Corporation (SAIC Canada) –  
Acid Extraction  
The MetX Company – Chemical  
Immobilization  
Universal Dynamics, Ltd. –  
Chemical Treatment-Other

### 1,4-Dioxane Treatment Technologies

Applied Process Technologies, Inc. –  
Pump and Treat  
ARCE Systems, Inc. – Chemical  
Treatment-Groundwater  
Purifics ES. – Pump and Treat

### Chemical Treatment - Oxidation/Reduction

EQ - The Environmental Quality  
Company  
Groundwater & Environmental  
Services, Inc.  
ORIN Remediation Technologies  
Pacific Northwest Laboratory  
REGENESIS Bioremediation  
Products

### Phytoremediation

CH2M HILL, Inc.

### Perchlorate Treatment Technologies

Adventus Americas Inc. – Pump  
and Treat  
Shaw Group – Bioremediation (in  
situ)-Groundwater

### Bioremediation

Adventus Americas Inc.  
Bio-Genesis Technology, Inc.  
Environmental H2O, L.L.C.  
Geovation Technologies  
Geosyntec Consultants  
H&H Eco Systems, Inc.  
H2O Engineering, Inc.  
Lambda Bioremediation  
Systems, Inc.  
Matrix Environmental  
Technologies Inc.  
SolutionsIES

### Other Treatment Technologies

Alzeta Corporation – Off-Gas  
Treatment  
BioGenesis Enterprises, Inc. – Soil  
Washing  
Current Environmental Solutions –  
In Situ Thermal Treatment  
EQ - The Environmental Quality  
Company – Solidification/  
Stabilization  
GeoSierra LLC – Passive Treatment  
Wall (Permeable Reactive Barrier)  
Pentek, Inc. – Decontamination of  
Debris  
Pneumatic Fracturing, Inc. –  
Fracturing - Pneumatic  
Tait & Associates, Inc. – In-Well Air  
Stripping  
Terran Corporation – Electrical  
Separation/Electrokinetics

### DNAPL Characterization And Sampling Technologies

Columbia Technologies, LLC –  
Direct Push  
Earth Dynamics – Ground  
Penetrating Radar  
W. L. Gore & Associates, Inc. –  
Soil Gas Analyzer Systems

### Sampling Technologies

NAEVA Geophysics – Borehole  
Nuclear Filter Technology Inc. –  
Air/Gas Sampling Technologies  
Westbay Instruments Inc. – Water  
Sampling Technologies

### Other Characterization And Monitoring Technologies

Columbia Technologies, LLC –  
Downhole sensors-Vadose Zone  
Columbia Technologies, LLC – Soil  
Gas Analyzer Systems  
Ecology & Environment, Inc./A.P.  
Buck – Chemical Reaction-Based  
Indicators (Colorimetric)  
Gallard-Schlesinger Industries, Inc.  
– Chemical Reaction-Based  
Indicators (Colorimetric)  
Heath Consultants Incorporated –  
Analytical Detectors (Stand  
Alone Only)  
Microseeps, Inc. –  
Chromatography  
NAEVA Geophysics –  
Magnetometry  
NAEVA Geophysics – Resistivity /  
Conductivity  
NAEVA Geophysics – Seismic  
Reflection / Refraction  
PhPlate AB – Immunoassays

\* Reference in this Fact Sheet or EPA REACH IT to any specific commercial product, process, or service, by trade name, trademark, manufacturer, or otherwise, does not constitute or imply the endorsement, recommendation, or favor of the United States Government



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